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[4957]-1074

S.E. (Computer Engg.) (Semester I) EXAMINATION, 2016

OPERATING SYSTEM AND ADMINISTRATION

(2012 PATTERN)

Time : Two Hours

Maximum Marks : 50

- N.B. :—** (i) Attempt Q. No. 1 or Q. No. 2, Q. No. 3 or Q. No. 4, Q. No. 5 or Q. No. 6, Q. No. 7 or Q. No. 8.
- (ii) Neat diagrams must be drawn wherever necessary.
- (iii) Figures to the right indicate full marks.
- (iv) Assume suitable data, if necessary.

1. (a) Draw and explain the architecture of Unix system. [6]
- (b) What is file system ? Explain file pathnames in detail. [6]

Or

2. (a) Draw and explain the 4 state process diagram. [6]
- (b) What is shell ? Explain any *five* commands. [6]
3. (a) Explain the concept of GRUB in detail. [6]
- (b) Define and explain Access Control List. [6]

P.T.O.

Or

4. (a) Explain the following commands : Cat, Head, Tail, Nice, Touch and Mount. [6]
- (b) Explain the run levels of Booting process in Unix. [6]
5. (a) Define the user mode and Kernel mode. Give the difference between them. [7]
- (b) Explain the unix access permission with example. [6]

Or

6. (a) Explain runaway processes Sudo command and su command with example. [6]
- (b) Give the difference between process Id and Parent process Id. [4]
- (c) Define : [3]

Top, UID, and GID.

7. (a) Explain the concept of file system mounting. [4]
- (b) Explain the following : [6]
- (i) fsck
- (ii) mkfs
- (iii) file system unmounting.
- (c) Write a note on /etc/ passwd file. [3]

Or

8. (a) Explain disk partitioning and disk formatting. [4]
- (b) Explain minimum password age, maximum password age, password inactivity period. [3]
- (c) Write basic steps of adding user with example. [6]